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| APPLICATION NO.                                    | FILING DATE                 | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-----------------------------|----------------------|---------------------|------------------|
| 10/810,647   | 03/29/2004                  | Jae-Ryong Park       | 1594.1317           | 9581             |
| 21171<br>STAAS & HAI                               | 7590 02/01/200°<br>LSEY LLP |                      | EXAMINER            |                  |
| SUITE 700  |                             |                      | HECKERT, JASON MARK |                  |
| 1201 NEW YORK AVENUE, N.W.<br>WASHINGTON, DC 20005 |                             |                      | ART UNIT            | PAPER NUMBER     |
|  | •                           |                      | . 1746              |                  |
|  |                             | <u> </u>             |                     |                  |
| SHORTENED STATUTOR                                 | Y PERIOD OF RESPONSE        | . MAIL DATE          | DELIVERY MODE       |                  |
| 3 MO   | NTHS                        | 02/01/2007           | PAPER               |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

|  |   | Application No.  | Applicant(s) | <i>سا</i> |  |  |  |
|--|---|--|--------------|-----------|--|--|--|
| Office Action Summary  |   | 10/810,647   | PARK ET AL.  |           |  |  |  |
|  |   | Examiner   | Art Unit     |           |  |  |  |
|  |   | Jason Heckert  | 1746         |           |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply   |   |  |              |           |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  |   |  |              |           |  |  |  |
| Status   |   |  |              |           |  |  |  |
| 1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |   |  |              |           |  |  |  |
| Disposition of Claims  |   |  |              |           |  |  |  |
| 4) Claim(s) 1-16 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-16 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  |   |  |              |           |  |  |  |
|  |   | •  |              |           |  |  |  |
| <ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>  |   |  |              |           |  |  |  |
| Priority u   | ınder 35 U.S.C. § 119   |  |              |           |  |  |  |
| <ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c) None of:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>  |   |  |              |           |  |  |  |
| 2) Notice | t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 3/29/04. | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate          |           |  |  |  |

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 6-7, 13-15 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The terms "guide part", "mounting part", "guide surface", and "guide step" are all vague and indefinite and don't clearly point to the structure the applicant intends to claim. Please revise and distinctly claim the invention.

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 rejected under 35 U.S.C. 102(b) as being anticipated by Roh et al. Roh et al discloses a washing machine with both pulsator and rotational cleaning abilities comprising a water tub 1, a rotary drum 2, a pulsator 4, and means to guide the rotation of the pulsator comprising a motor, clutch spring, and pulsator shaft (col 2 lines 25-29, col 3 lines 42-48).

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### Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 9-11 rejected under 35 U.S.C. 102(b) as anticipated by Oh or, in the alternative, under 35 U.S.C. 103(a) as obvious over Oh in view of Na et al. Oh discloses a water tub 10, a rotary drum 20, pulsators 34, and a rotation guide comprising a frictional driving wheel 32 (a functional equivalent to a gear) mounted on the water tub, pinions 37, and a plurality of radially arranged rotating blades 34 (a functional equivalent to a plate with blades) attached to a rotating shaft wherein the shaft connects the blades to the pinions. The pulsators are arranged around the axis of rotation.
- 3. In the alternative, Oh discloses a friction wheel, not a ring gear. Oh also does not disclose the blades of the pulsator being mounted on a plate. Na et al. disclose the interchangeability of friction wheels and gears (col 3 lines 26-30) as well as pulsators containing blades mounted on plates (figure 4). It would have been obvious at the time of the invention, to modify Oh and include a gear in place of the friction plate, as they are obvious variants as disclosed by Na et al., and further include pulsators in the form of blades mounted on rotating plates, also disclosed by Na et al., as they are a known construction of a pulsating device.
- 4. Claims 4-8, 12-15 rejected under 35 U.S.C. 103(a) as obvious over Oh in view of Na et al and further in view of Seo. Oh does not disclose a seat for the pulsator. Na et

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al. disclose a seat in the form of concave recesses 22 in the rotary drum (figure 1). Further included is a guide unit comprising a guide part or surface, as in the upper periphery of the recess that is slidably contacting the plate 48, wherein the recess comprises a central hole extending from the guide part/surface to the base of the recess therefore creating a shaft guide part. The guide part is integrally formed, or mounted, in the recess. In regards to claim 13, both the upper surface and a portion of the step into the recess contact the rotating plate. The guide surface is in the shape of a circle. In regards to claims 7 and 14, neither Oh nor Na disclose the use of bushings. Bushings are notoriously well known in the art for their use in tubes or holes to reduce friction and their use cannot be considered novel. See discloses the previous use of a bushing member on the shaft of a pulsator (col 2 lines 6-10), as well as the use of bushings on the machine's drive washing shaft (col4 lines 50-55). It would have been obvious at the

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5. Claim 16 rejected under 35 U.S.C. 103(a) as obvious over Oh in view of Na et al. as applied to claim 2 above and further in view of Cho. Neither Oh nor Na disclose a convex pulsator. Cho discloses the use of a convex pulsator 410. It would have been obvious to modify Oh in view of Na, as described above, and further include a convex pulsator, as described by Cho, as it is an obvious and well-known construction in pulsator design.

time of the invention, to modify Oh and include a seat and guide unit, as disclosed by

Na. to control and restrain the movement of the pulsator and further include bushings on

the pulsator shaft, as disclosed by Seo, to reduce friction in between the shaft and tube.

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### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Heckert whose telephone number is (571) 272-2702. The examiner can normally be reached on Mon. to Friday, 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**JMH** 

SUPERVISORY PATENT EXAMINER

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